1st & Part Bill

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

60840

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Name of work :- Improvements & asphalting to main & Cross roads at Soap factory Layout, M.S. Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in ward no. 14 (5-works) Package No. DZ 2017-18 (04)						
	Name of Agency :- M.S. Venkatesh						
	Est Cost. Rs. 250.00 Lakhs						
	Jobe Code no :- 014-18-000061, 014-18-000062, 014-18-000063 & 014-18-000065						
	Work order no :- EE/DD/WO/304/2018-19 dated :02.02.2019						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurement recorded on :- 20.02.2019						
	Item NO: 2 Removing RS Slab of Drain & Stacking (P-0025 I.No. 5.32 of KPWD S.R 2016-2017)				Total Qty @ TR	492.75 m² 73.59	36261.47/=
	Item NO: 3 Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters & an average lift upto 0.5m, excavated surface leveled & sides neatly dressed the disposed earth to be leveled neatly after breaking of clods Complete as per Specifications. MORTH / Chapter 3						(P-141/19.1).

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

60841

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
			Length	Breadth			
1	2	3	4	5	6	7	8
				Total Qty		2456.15 m^3	
				@ TR		97.32	239032.03/-
	Item No : 5 KSRB 4-1-2: Providing & laying in Position plain Cement Concrete of mix 1:3:6 with opc cement @ 220 kgs with 40mm & down Size graded granite metal coarse aggregates @ 0.892 cum & fine aggregate @ 0.465 cum machine mixed, machine mixed, Concrete laid in layers not exceeding 15cms thick, well compacted in foundation including cost of all material & labour, Hire of machinery curing complete as per Specifications & Specifications No. KBS 4.1, 4.2.						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				Total Qty		86.46	m^3
				@ TR		6269.11	542027.25/-
	Item No: 6 KSRB 5-14 : Providing & Constructing Precast Concrete Solid blocks with Compressive strength not less than 3.5 Newton Per Sqmm with Cement mortar 1:4 masonry (Quoin, Jamb, door blocks) with Solid Concrete blocks of Size 40 x 20 x 20 cms Conforming to IS: 2185/1965 in Superstructure including cost of material & , labour charges . & scaffolding . curing Complete as Per Specifications.						
				Total Qty		970.80	m^2
				@ TR		1112.11	1079636.39/-

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60842

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Dimensions Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Item No: 7 Providing & Constructing granite/trap/bo Salt Size Stone masonry in foundation with Cement mortar 1:8 Stone hammered dressed in Courses not less than 20 cms high, bond stones at two m part in each course including Cost of materials, labour, Curing Complete as per Specifications.					Total Qty 34.74 m^3	
						@ TR 4969.47	172639.39/=
	Item No: 8 KSRB 4-1-6:- Providing & laying in position Plain Cement Concrete of mix 1:2:4 with Cement				@	2400kgs	20mm & down

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Size graded granite metal coarse aggregates @ 0.69 cum & fine aggregates @ 0.459 cum machine mixed, Concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, Plinth & sills including cost of all materials, labour Hire of machinery, curing complete as per Specifications. Specification No. 1 & 3 4.1, 4.2						
					Total Qty @TR	60.80 m³ 6457.82	392635.46/-
	Item No. 26 Refixing R.C.C. Slab of Drain & Painting in CM (1:3) P.No. 25, I.No. 5.33 of ICPWD S.R 2016-17)				Total Qty @TR	492.75 m² 90.20	44446.05/-

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M. A. R. 57 (Rule 116) No. D

Measurement Book

60843

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO: 27 Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading, unloading etc., Complete as per the direction of engineer in charge Data rate.						
						Total Qty 1508.85	m^2
						@TR 2053.53	3098468.74/=
	Item NO: 9 Providing & fixing pre Cast Solid Concrete kerb stone made out of CC 1:2:4 with top & bottom width 114 & 165 mm respectively 400mm high & 450 mm in length finished with Cm 1:3 plastering & finishing cutting, including from accnic, curing including						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cost of all materials, labour, hire charges of machinery, loading unloading lead & lift, transportation etc, Complete. etc, Complete.						
					Total Qty	2225.00	Nos
					@TR	432.03	961266.75/-
	Item NO: 10 KSRRB 800 - Painting two coats after filling the surface with Synthetic enamel paint in approved shades on new plastered Concrete Surface, with materials, labour Complete as per Specifications MORTH Chapter 8.						
					Total Qty	452.70	m^2
					@TR	71.21	32236.77/-

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M. A. R. 57 (Rule 116) **No. D** 60844

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4		6	7	8
	Item NO: 11 KSRRB 300-58 Compaction of original ground with maximum of 6 Passes of 8 to 10 tonnes Power roller including filling in depression occuring during rolling including Cost of all labour Hom of machinery Complete as per Specifications. MORTH/Chapter 3.						
					Total Qty @ TR	688.50 m² 5.93	4082.81
	Item No: 12 KSRRB M 300-55, Construction of Shoulders with approved materials Gravel/Murrum Heads transporting to site Spreading, grading to					Sub-	Graded & earthen with all lifts & required slope &

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and Compacted to meet requirement of Table No. 300-2 Complete of Specifications Including cost of earth, watering charges & Compac by vibratory roller) MORTH Specification No. 305.						
					Total qty	103.28	m^2
					@ TR	392.86	40574.58/=
	Item NO: 13 KSRRB m400- 6.1 Construction of granular Sub- base by Providing close graded material, mixing in a mechanonical mix plant at omc, Carriage of mixed material to work site. Spre in uniform layers motor grader on prepared Surface & Compacting with vibratory Power roller to achieve the desired density Complete as per Specifications. A Plant mix method. close graded granular Sub- base material as per 400-1 for Grading -II material.						

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Measurement Book

60845

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
				Total Qty	172.13 m^3	
				@ TR	1731.66	298070.64/=
	Item No: 14 Providing, laying, spreading & Compacting graded stones aggregates to wet mix macadam specifications including Pre-mixing the material with water at OMC in mechanical mix plant carriage of mix method of tipper to site, Laying in uniform layers with Paver in Sub/base/ base Course on the well prepared Sup face & Compacting with Vibratory rollers to achieve the desired density Complete as per MORTH Specification No. 406, etc. with all lead & lift & as per directions of the					

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Engineer-in-charge (I.NO. 20.18 P.NO. 157 of KPWD S.R 2016-17).					719.18 m^3	
					Total Qty @1R	1979.72	1423779.98
	Item NO: 20 KSRRB 3000 filling pot-holes & Patch Repairs with Bituminous Concrete, 40mm KSRRB m3008-5 Removal of all failed material, trimming of completed excavation to provide firm vertical faces Cleaning of Surface, applying tack coat on the sides & base of excavation at 0.2 kg/10sqm as per clause 500.3, back filling the pot holes with hot bituminous materials as per clause 500.4 Compacting, trimming & finishing the Surface to form a Smooth Continuous Surface all as per clause 3004.2 complete as per Specifications MORTH						

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60846

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Specification No. 3004.2.			Total Qty		369.68 m^3	
				@ TR		338.26	125047.96/-
	Item No: 18 KSRRB M 500-6 - Providing & applying Primer Coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WNM including cleaning of road surface mechanical means Complete as Per Specifications · MORTH Specification No. 502.			Total Qty		688.50 m^2	
				@ TR		30.86	21247.11/-

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No: 19 Cleaning the existing black topped Surface with brooms Soft brushes & finally dusting with old gunny bags & /or Compressed air to receive bituminous treatment including cost of all materials labour, Hire of machinery Complete as per Specification						
						Total Qty 14874.70 m^2	
						@ Rs 3.56	
							52953.93/-
	Item No: 21 KSRRB 500-7. Providing & laying tack coat using 80/100 Grade bitumen (VG10) on the Prepared black topped Surfaces at 2.5 kg Per 10 sqm, heating bitumen in boilers fitted with Spray Set (excluding cleaning of road Surface) including cost of all materials, labour, Hire of machinery Complete as per Specifications, MoRTH, chapter 5.						

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60847

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
				Total qty		20701.80 m^2	
				@ TR		13.06	
	Item NO:22 KSRRB500-11. Providing & laying bituminous macadam on Prepared surface with Crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.I loader, hot mixing of stone aggregates & bitumen in hot mix Plant, transporting the mixed material in tipper to paver finisher to the required level & grade, rolling by power to achieve the desired density but excluding cost of Premier / tack Coat including lead, lift & Cost of all materials labour, Hire of machinery Complete as per specifications using						270365.51/=

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	40/60 TPH Capacity H.M.P with mechanical paver with 3.3 % VG-30 Bitumen					Gr-II	(50mm to 75m
				Total Qty		464.95	m^3
				@TR		6210.95	2887781.2
	Item NO: 23 Providing & laying bituminous Concrete 40mm thic with hot mix plant using crushed aggregates of specified grading Premixed with bituminous binder & filler transporting the hot mix to work site, laying with a paver finisher to the required grade level & alignment rolling with smooth wheeled vibratory & tandeem rollers to achieve the desired compaction as per MORTH Specification clause no. 500.9 Complete in all respects Complete of Specification using 40/60 TPH Capacity H.M.P with mechanical						

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60848

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Paver Gr-II (30mm to 45mm) with 6% VG-30 MORTH Specification No. 509 (Sl. No. 21.22.6, Page No. 164).					Bitumen	
						Total Qty 622.53 m³	
						@ TR 15283.48	95,14424.80/=
	Item No: 24 Add plastic to Bituminous Concrete 8% of Bitumen.						
						Total Qty 422.68 kg	
						@ TR 30.23	12777.47/=

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No: 25 Road marking with Hot Applied thermoplastic Compound with reflectorising glass beads on bituminous Surface Providing & laying of hot applied thermoplastic Compound 2.5 mm thick including reflectorising glass beads @ 250 grm per Sqm over thickness of 2.5 mm as per IRC 35. the finished surface to be level uniform & free from streaks & holes Complete as per Specifications MORTH Specifications No. 803 P-No. 18). It-no. 24.15 of KPWD S.R 2016.						
					Total Qty	535.58 m^2	
					@ TR	607.68	325461.25

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. 60849

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
	Item no: 28 Lead charges for Conveying the Excavated earth including loading & unloading upto 10kms as per directing.					
				Total Qty	245615 m^3	
				@TE	118.69	291519.85/2
				Grand Total =		2,18,66,737.38

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certified that the work done satisfactorily Certified that the debris removed from the work spot. ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು						

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

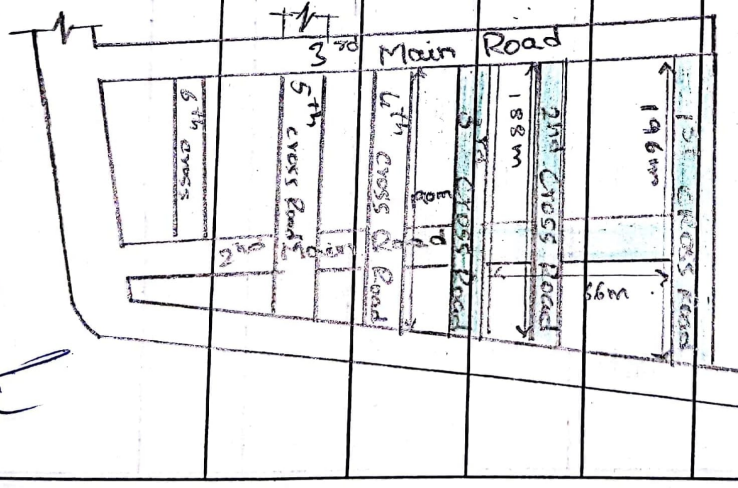
Name of work ..... From ..... To .....

60850

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8



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ಚಿಕ್ಕದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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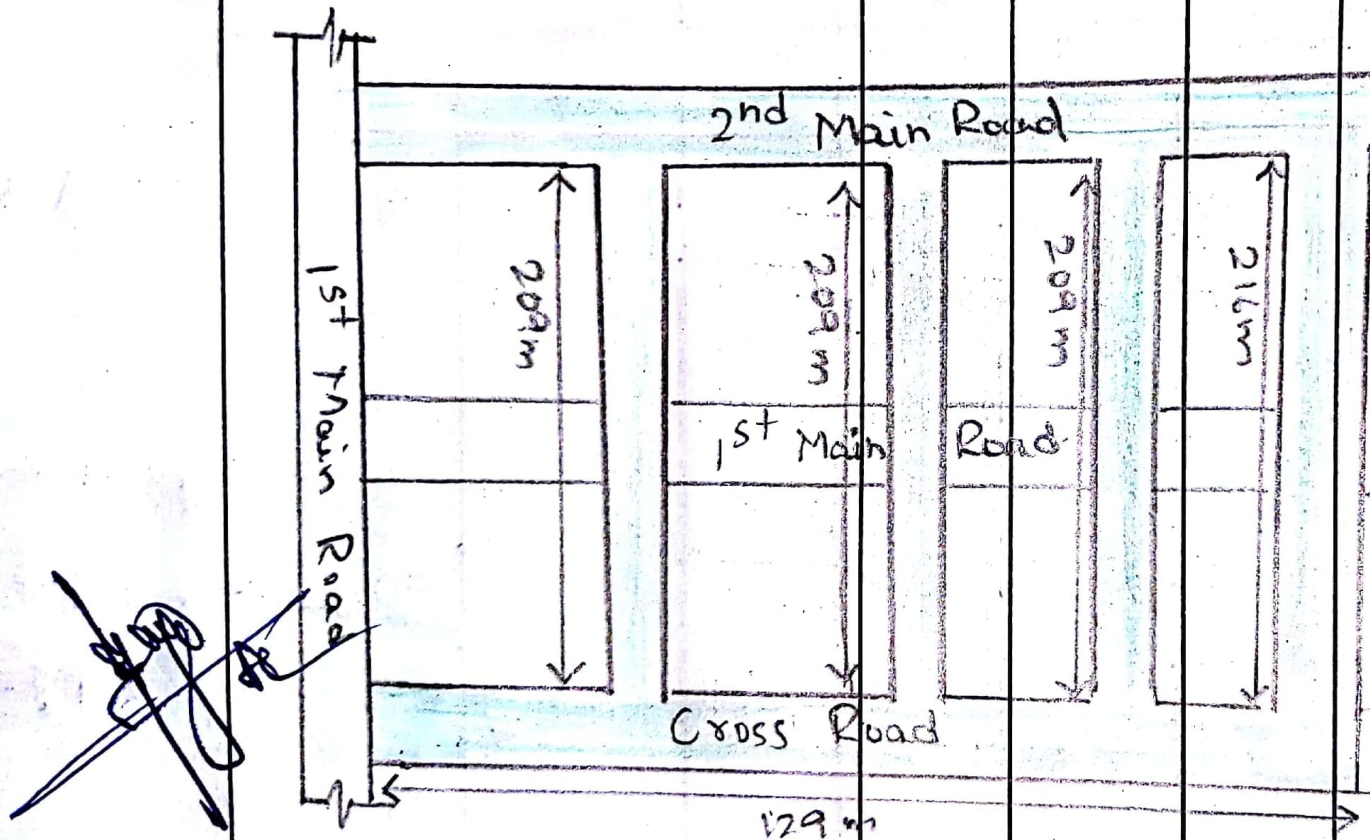

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→ Asphalting

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ಬೆಂಗಳೂರು

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

60851

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

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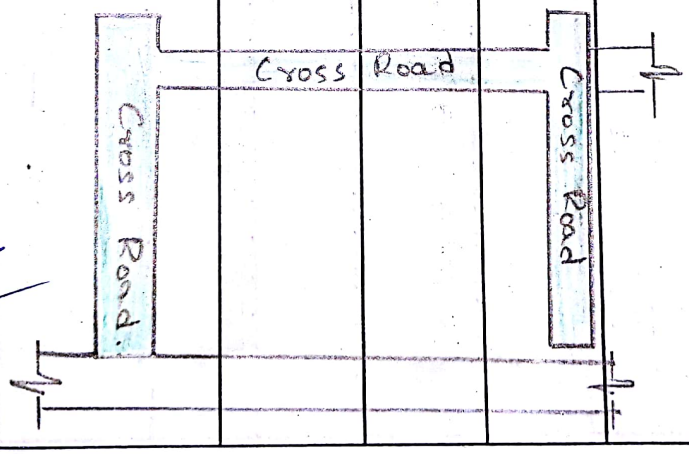
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



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ಶ್ರೀದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
~~ಮಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ~~
ಬೆಂಗಳೂರು

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MEASUREMENT BOOK

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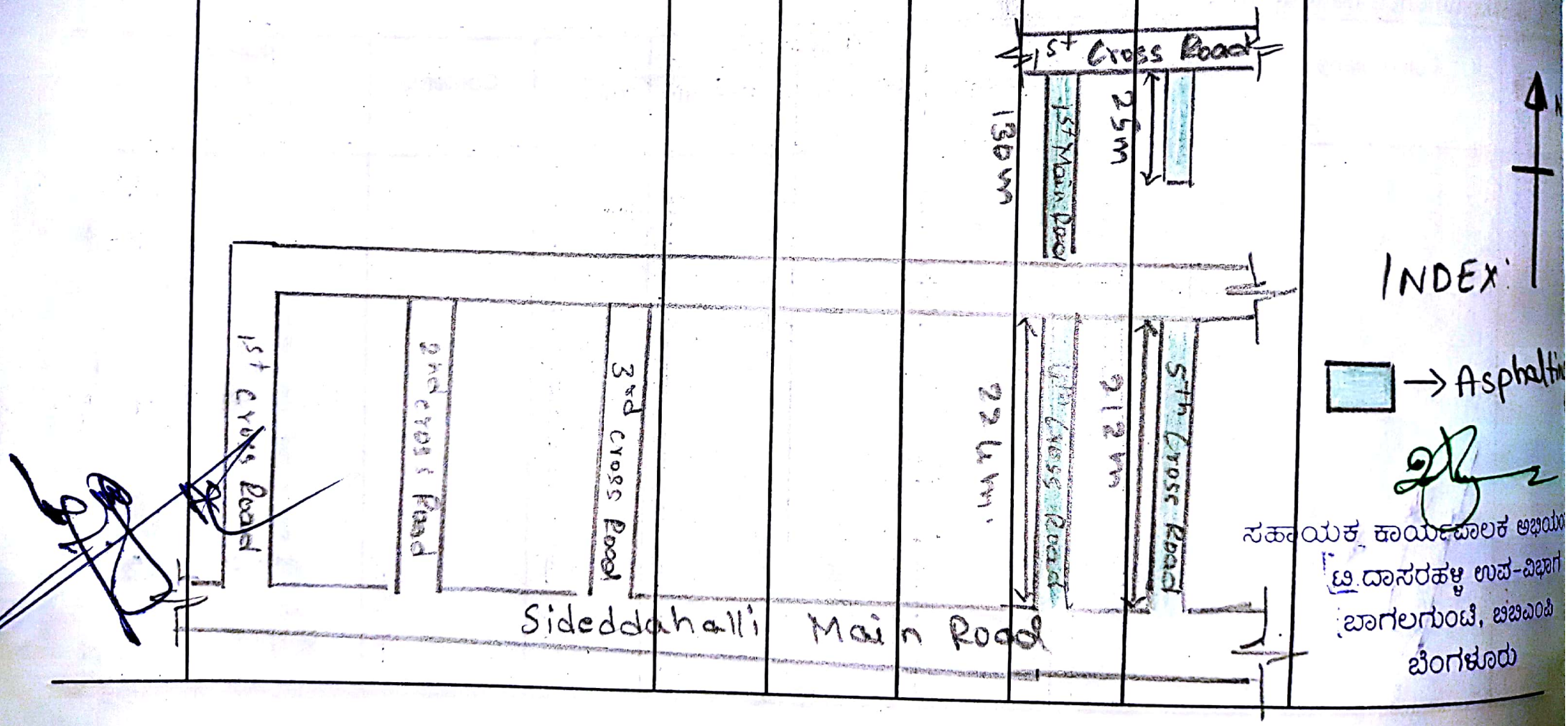

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